GOVERNMENT OF KARNATAKA

Bruhat Bengaluru Mahanagara Palike

ESTIMATE

E.M.B.-

Name of Work : Improvements of RCC drain & Covering slab Maheshwari Nagara 5th & 6th Right Side roads in Dasarahalli Ward No 15

Estimate Cost:-75.00 Lakhs

Assistant Engineer
Dasarahalli W-15
B.B.M.P

Office of the Asst. Executive Engineer
T.Dasarahalli Sub-division
B.B.M.P

BRUHAT BANGALORE MAHANAGARA PALIKE

DASARAHALLI ZONE

E-MB

Name of Work: Improvements of RCC drain & Covering slab Maheshwari Nagara 5th & 6th Right Side roads in Dasarahalli Ward No 15

Sl	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Pre-measurments								
1	KSRRB M200-Dismtling of existing structures like culverts, Bridges, retaining walls and other structure comprising of masonary, cement concrete, wood work,steel work, including T&P and scaffolding whereever necessary, sorting the dismanlet material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specification Lime/Cement concrete I. By Manual Means C. Prestressed /Reinforced cement concrete Grade M-20 & above (P-139, lt 18.19) PWD SR 2018-19								
	Dismantling old drain								
	5th cross R/S	Cum	1	30.00	1.20	0.15	5.40		
			1	30.00	1.20	0.15	5.40		
			1	30.00	1.20	0.15	5.40		
			1	12.80	1.20	0.15	2.30		
			1	30.00	1.20	0.15	5.40		
			1	26.40	1.20	0.15	4.75		
	5th cross L/S		1	30.00	1.20	0.15	5.40		
			1	30.00	1.20	0.15	5.40		
			1	30.00	1.20	0.15	5.40		
			1	12.80	1.20	0.15	2.30		
			1	30.00	1.20	0.15	5.40		
			1	26.40	1.20	0.15	4.75		
	6th cross L/S		1	30.00	1.20	0.15	5.40		
			1	30.00	1.20	0.15	5.40		
			1	30.00	1.20	0.15	5.40		
			1	18.20	1.20	0.15	3.28		
	Eagle bekary road R/S		1	15.00	1.20	0.15	2.70		
			1	25.80	1.20	0.15	4.64		
	Eagle bekary road L/S		1	24.00	1.20	0.15	4.32		
			1	22.50	1.20	0.15	4.05		
	5th cross culvert L/S		1	6.80	1.80	0.15	1.84		
	R/S		1	6.70	1.80	0.15	1.81		
	5th cross R/S		2	30.00	0.15	0.90	8.10		
			2	30.00	0.15	0.90	8.10		
			2	30.00	0.15	0.90	8.10		
			2	12.80	0.15	0.90	3.46		
			2	30.00	0.15	0.90	8.10		
			2	26.40	0.15	0.90	7.13		
	5th cross L/S		2	30.00	0.15	0.90	8.10		
			2	30.00	0.15	0.90	8.10		
			2	30.00	0.15	0.90	8.10		
			2	12.80	0.15	0.90	3.46		
			2	30.00	0.15	0.90	8.10		
			2	26.40	0.15	0.90	7.13		
	6th cross L/S		2	30.00	0.15	0.90	8.10		
			2	30.00	0.15	0.90	8.10		
			2	30.00	0.15	0.90	8.10		

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			2	18.20	0.15	0.90	4.91		
	Eagle bekary road R/S		2	15.00	0.15	0.90	4.05		
			2	25.80	0.15	0.90	6.97		
	Eagle bekary road L/S		2	24.00	0.15	0.90	6.48		
			2	22.50	0.15	0.90	6.08		
	5th cross culvert L/S		2	6.80	0.20	0.90	2.45		
	R/S		2	6.70	0.20	0.90	2.41		
	dismantling old road								
	2nd cross road		1	30.00	4.55	0.25	34.13		
			1	30.00	4.60	0.25	34.50		
			1	30.00	4.60	0.25	34.50		
			1	22.00	4.65	0.25	25.58		
			1	30.00	4.65	0.25	34.88		
			1	2.50	4.60	0.25	2.88		
						Qty	406.21		
						Qty limited to	340.04	1684.34	572743.00
	Pre-measurments								
2	KSRRB 300 - Excavation for road, drains and similar works - KSRRB 300-1. Earthwork excavation by manual means in Hard soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications. MORTH Chapter 3 (P.6/1.2.4 PW, P & IWTD -SR 2018-19)								
	5th cross R/S	Cum	1	30.00	1.20	1.00	36.00		
			1	30.00	1.20	1.00	36.00		
			1	30.00	1.20	1.00	36.00		
			1	12.80	1.20	1.00	15.36		
			1	30.00	1.20	1.00	36.00		
			1	26.40	1.20	1.00	31.68		
	5th cross L/S		1	30.00	1.20	1.00	36.00		
			1	30.00	1.20	1.00	36.00		
			1	30.00	1.20	1.00	36.00		
			1	12.80	1.20	1.00	15.36		
			1	30.00	1.20	1.00	36.00		
			1	26.40	1.20	1.00	31.68		
	6th cross L/S		1	30.00	1.20	1.00	36.00		
			1	30.00	1.20	1.00	36.00		
			1	30.00	1.20	1.00	36.00		
			1	18.20	1.20	1.00	21.84		
	Eagle bekary road R/S		1	15.00	1.20	1.00	18.00		
			1	25.80	1.20	1.00	30.96		
	Eagle bekary road L/S		1	24.00	1.20	1.00	28.80		
			1	22.50	1.20	1.00	27.00		
	2nd cross road		1	30.00	4.55	0.20	27.30		
			1	30.00	4.60	0.20	27.60		
			1	30.00	4.60	0.20	27.60		
			1	22.00	4.65	0.20	20.46		
			1	30.00	4.65	0.20	27.90		
			1	2.50	4.60	0.20	2.30		
	5th cross culvert L/S		1	6.80	1.80	1.00	12.24		
	R/S		1	6.70	1.80	1.00	12.06		
							774.14		
						limeted to	756.00	189.74	143443.00

	Pre-measurments								
3	Providing, laying, spreading and compacting graded stone aggregates to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. Specification No. 406 with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work.(PWD SR 2018-19, P.No.155, I No.20.18)								
		Cum	1	30.00	4.55	0.15	20.48		
			1	30.00	4.60	0.15	20.70		
			1	30.00	4.60	0.15	20.70		
			1	22.00	4.65	0.15	15.35		
			1	30.00	4.65	0.15	20.93		
			1	2.50	4.60	0.15	1.73		
							99.87	2001.28	199868.00
	Pre-measurments								
4	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. MORTH Specification No. 2100 (P.222/1.27.18) PWD - SR 2018-19)								
	5th cross R/S	Cum	1	30.00	1.20	0.15	5.40		
			1	30.00	1.20	0.15	5.40		
			1	30.00	1.20	0.15	5.40		
			1	12.80	1.20	0.15	2.30		
			1	30.00	1.20	0.15	5.40		
			1	26.40	1.20	0.15	4.75		
	5th cross L/S		1	30.00	1.20	0.15	5.40		
			1	30.00	1.20	0.15	5.40		
			1	30.00	1.20	0.15	5.40		
			1	12.80	1.20	0.15	2.30		
			1	30.00	1.20	0.15	5.40		
			1	26.40	1.20	0.15	4.75		
	6th cross L/S		1	30.00	1.20	0.15	5.40		
			1	30.00	1.20	0.15	5.40		
			1	30.00	1.20	0.15	5.40		
			1	18.20	1.20	0.15	3.28		
	Eagle bekary road R/S		1	24.00	1.20	0.15	4.32		
			1	25.80	1.20	0.15	4.64		
	Eagle bekary road R/S		1	15.00	1.20	0.15	2.70		
			1	22.50	1.20	0.15	4.05		
	2nd cross road		1	30.00	4.55	0.15	20.48		
			1	30.00	4.60	0.15	20.70		
			1	30.00	4.60	0.15	20.70		
			1	22.00	4.65	0.15	15.35		
			1	30.00	4.65	0.15	20.93		
			1	2.50	4.60	0.15	1.73		
	5th cross culvert L/S		1	6.80	1.80	0.15	1.84		
	R/S		1	6.70	1.80	0.15	1.81		
						qty	196.02		
						limeted to	193.32	5421.90	1048162.00

Checked by me

ಸಹಾಯಕ ಅಭಿಯಂತರರು (ಪ್ರಭಾರ)
ಬಾಗಲಕೋಟೆ. ಜಿ.ಪಂ.ಎಂ.ಪಿ.
ಬಾಗಲಕೋಟೆ-587103

Checked by me

Checked

E.E. (D.D.),

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	Pre-measurments								
8	KSRRB M2200-6. Supplying, fitting and placing TMT bar Fe 500 reinforcement in sub-structure complete as per drawing and Technical Specifications complete as per specificationsMORTH Specification No. ...00 & 2200 [P. no.229 - I. no.28.8.2]PWD - SR 2018-19)								
		Tonne							
	Description of work	***Dia***	***Length***	***Nos***	***8mm***	***10mm***			
	For RCC Drain								
	5th cross L/S								
	Main steel	10mm	2.70	1592		4298.40			
	Dist steel	8mm	159.20	27	4298.40				
	5th cross R/S								
	Main steel	10mm	2.70	1592		4298.40			
	Dist steel	8mm	159.20	27	4298.40				
	6th cross L/S								
	Main steel	10mm	2.70	1080		2916.00			
	Dist steel	8mm	108.20	27	2921.40				
	eagle bekary road L/S								
	Main steel	10mm	2.70	498		1344.60			
	Dist steel	8mm	49.80	27	1344.60				
	eagle bekary road R/S								
	Main steel	10mm	2.70	498		1344.60			
	Dist steel	8mm	49.80	27	1344.60				
				Mtr	***14207.40***	***14202.00***			
		8mm	***14207.40***	***0.39***	***Kgs***	***5540.89***			
		10mm	***14202.00***	***0.62***	***Kgs***	***8805.24***			
					Kgs	***14346.13***			
					M.T	***14.35***			
	Description of work	***Dia***	***Length***	***Nos***	***10mm***	***12mm***			
	culvert mat								
	culvert @ 5th crossL/S								
	Main steel	12mm	6.80	15		102.00			
	Dist steel	10mm	1.50	68	102.00				
	culvert @ 5th crossR/S								
	Main steel	12mm	6.70	15		100.50			
	Dist steel	10mm	1.50	670	1005.00				
	culvert wall								
	culvert @ 5th crossL/S								
	Main steel	12mm	4*2	68		544.00			
	Dist steel	10mm	6.80	20	136.00				
	culvert @ 5th crossR/S								
	Main steel	12mm	4*2	67		536.00			
	Dist steel	10mm	6.70	20	134.00				
				Mtr	***1377.00***	***1282.50***			
	10mm	***1377.00***	***0.62***	***Kgs***	***853.74***				
	12mm	***1282.50***	***0.89***	***Kgs***	***1141.43***				
				Kgs	***1995.17***				
				Kgs	***1995.17***				
				M.T	***2.00***				
					Kgs	***16341.29***			
					M.T	***16.34***			
						Qty	16.34	72326.98	1181916.00

	Pre-measurments								
5	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200.(PWD SR 2018-19 P.no-271, It No 37.59.20)								
	Bottom raft								
	5th cross R/S	Cum	1	30.00	0.90	0.15	4.05		
			1	30.00	0.90	0.15	4.05		
			1	30.00	0.90	0.15	4.05		
			1	12.80	0.90	0.15	1.73		
			1	30.00	0.90	0.15	4.05		
			1	26.40	0.90	0.15	3.56		
	5th cross L/S		1	30.00	0.90	0.15	4.05		
			1	30.00	0.90	0.15	4.05		
			1	30.00	0.90	0.15	4.05		
			1	12.80	0.90	0.15	1.73		
			1	30.00	0.90	0.15	4.05		
			1	26.40	0.90	0.15	3.56		
	6th cross L/S		1	30.00	0.90	0.15	4.05		
			1	30.00	0.90	0.15	4.05		
			1	30.00	0.90	0.15	4.05		
			1	18.20	0.90	0.15	2.46		
	Eagle bekary road R/S		1	24.00	0.90	0.15	3.24		
			1	25.80	0.90	0.15	3.48		
	Eagle bekary road L/S		1	24.00	0.90	0.15	3.24		
			1	25.80	0.90	0.15	3.48		
	5th cross culvert L/S		1	6.80	1.50	0.15	1.53		
	R/S		1	6.70	1.50	0.15	1.51		
	side wall concrete								
	5th cross R/S		2	30.00	0.15	0.90	8.10		
			2	30.00	0.15	0.90	8.10		
			2	30.00	0.15	0.90	8.10		
			2	12.80	0.15	0.90	3.46		
			2	30.00	0.15	0.90	8.10		
			2	26.40	0.15	0.90	7.13		
	5th cross L/S		2	30.00	0.15	0.90	8.10		
			2	30.00	0.15	0.90	8.10		
			2	30.00	0.15	0.90	8.10		
			2	12.80	0.15	0.90	3.46		
			2	30.00	0.15	0.90	8.10		
			2	26.40	0.15	0.90	7.13		
	6th cross L/S		2	30.00	0.15	0.90	8.10		
			2	30.00	0.15	0.90	8.10		
			2	30.00	0.15	0.90	8.10		
			2	18.20	0.15	0.90	4.91		
	Eagle bekary road R/S		2	24.00	0.15	0.90	6.48		
			2	25.80	0.15	0.90	6.97		
	Eagle bekary road L/S		2	24.00	0.15	0.90	6.48		
			2	25.80	0.15	0.90	6.97		
	5th cross culvert L/S		2	6.80	0.20	0.90	2.45		
	R/S		2	6.70	0.20	0.90	2.41		

Checked by
ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು ಚಾಮರಾಜಪೇಟೆ ಉಪವಿಭಾಗ
ಶ್ರೀ ರಾಘವೇಂದ್ರ ಮಠದ ಹಿಂಭಾಗ
ಬಾಳೆಕುಂಟೆ, ಕೆ.ಆರ್.ರಸ್ತೆ
ಬೆಂಗಳೂರು-560070

Checked by
ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು ಚಾಮರಾಜಪೇಟೆ ಉಪವಿಭಾಗ
ಶ್ರೀ ರಾಘವೇಂದ್ರ ಮಠದ ಹಿಂಭಾಗ
ಬಾಳೆಕುಂಟೆ, ಕೆ.ಆರ್.ರಸ್ತೆ
ಬೆಂಗಳೂರು-560070

Chkd by
A/E (D.D.)
07/11

Chkd by
A/E
E.E. (D.D.)
12/11

5/f

	building side concrete		1	30.00	0.15	0.40	1.80		
			1	30.00	0.15	0.40	1.80		
			1	30.00	0.15	0.40	1.80		
			1	12.80	0.15	0.40	0.77		
			1	30.00	0.15	0.40	1.80		
			1	26.40	0.15	0.40	1.58		
			1	30.00	0.15	0.40	1.80		
			1	30.00	0.15	0.40	1.80		
							234.16	7070.20	1655562.00
	detailed· measurments								
6	Supplying and fixing precast rainforced concee slab 10cm thick including cost of reinforcement as per design and drawing material cost, transportation, hire charges of machinery, machine cutting the vertical face to get plain even surface stc., complete with all leads and lift convevance charges, labour charges inclusive of cost of all materials.								
	5th cross R/S	Sqm	1	30.00	0.90		27.00		
			1	30.00	0.90		27.00		
			1	30.00	0.90		27.00		
			1	12.80	0.90		11.52		
			1	30.00	0.90		27.00		
			1	26.40	0.90		23.76		
	5th cross L/S		1	30.00	0.90		27.00		
			1	30.00	0.90		27.00		
			1	30.00	0.90		27.00		
			1	12.80	0.90		11.52		
			1	30.00	0.90		27.00		
			1	26.40	0.90		23.76		
	6th cross L/S		1	30.00	0.90		27.00		
			1	30.00	0.90		27.00		
			1	30.00	0.90		27.00		
			1	18.20	0.90		16.38		
	Eagle bekary road R/S		1	24.00	0.90		21.60		
			1	25.80	0.90		23.22		
	Eagle bekary road L/S		1	24.00	0.90		21.60		
			1	18.60	0.90		16.74		
							467.10	2208.00	1031357.00
	detailed· measurments								
7	Cement concrete pavement.Construction of un·reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103·1999 ReaffirmecF2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. M30 (at 360kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.43cum)								
	2nd cross road	Cum	1	30.00	4.55	0.15	20.48		
			1	30.00	4.60	0.15	20.70		

			1	30.00	4.60	0.15	20.70		
			1	22.00	4.65	0.15	15.35		
			1	30.00	4.65	0.15	20.93		
			1	2.50	4.60	0.15	1.73		
							99.87	5210.96	520419.00
9	Disposal of debris to the final place of disposal with all lead and lift and as direction by the engineer in charge of the work, lead 4 Km a) Basic rate for haulage of materials as per item No. 17.4/KSRRB : M100-4.1 ..... Rs. 2.00 Tonne/Km b) Average earth of work 1.28 Tonne/Km for Rs. 2.00/Km c) Add loading and unloading Page No. 136 Item No. 17.1 PWD SR 2018-19								
		Cum	Qty Vide Item No.1+2				1096.04	69.80	76504.00
							Sub Total		6429974.00
10	KRIDL Charge 4.5%								289349.00
11	GST charges 12%								771597.00
								Grand Total	7490920.00

CERTIFICATE:-

1 The Work spot has been inspected and the work is found to be necessary

2 The Estimate is prepared as per the PW,P & IWTD -SR-2018-19

3 The Provision made in estimate are adequate and essential.

4 This area comes under BBMP limits.

Assistant Engineer
Ward No 15

Assistant Executive Engineer
T. Dasarahalli Sub-Division

Executive Engineer
Dasarahalli Division

Audit and checked.

F.DA.
EE D.D.
08/06/20